

MINUTES FROM THE NPP PROJECT SCIENCE MEETING

April 12, 2004

Present: Bob Murphy, Jeff Privette, Jim Shiue, Bob Barnes, Ron Vogel, Robert Woodward, Kelvin Brentzel, John Qu, Joseph Lyu, Hassan Ouaidrari, Alex Lyapustin, Mingjie Su, Sam Gasster (via telecon), Natasha Vozza

Action Items Carried Forward:

97. Hassan Ouaidrari to prepare statement with links to different versions of Cal/Val documents with explanations.

STATUS: PENDING

98. Pete Kealy to prepare a list of general documents

STATUS: PENDING

100. John Qu to secure agreement from NGST to use the VIIRS simulation software on NPP1.

STATUS: PENDING

New Action Items

101. PSG group to look at NPP Science Team web page and NPP Project web page and send comments to Ron Vogel and Mingjie Su.

MEETING DISCUSSIONS

1) General remarks: Bob Murphy:

- The Project is not holding weekly staff meetings at this time.
- Franco Einaudi has asked Jeff Privette to serve as Acting NPP Project Scientist when Bob retires at the end of April. The search for a new Project Scientist continues. Bob is hopeful that a successor will be named before the end of April.
- Bob thanked everybody for his retirement lunch. He thoroughly enjoyed both the toasting and the roasting.

2) Algorithm Status: Bob Murphy (for Pete Kealy)

- During the last IDPS face-to-face meeting it was stated that NPP has less than a million (~450,000) lines of code. Pete said that nobody seemed to be concerned about this fact. Sam agreed that this seems to be very low.

3) ATMS: Jim Shiue

- Cal/Val meetings and telecons are continuing.
- He and the PI's want to understand the mechanism for them to impact the program after they have identified their concerns and possible actions. For example, Dave Staelin suggested additional beam positions during the testing. How does this get done?
- Bob said that their communications with the ATMS Instrument Manager (IM) are problematic, as he is very focused on cost and schedule. He suggested that the relevant PI's (David Staelin, Bjorn Lambrigtsen, and Evan Fishbein) and Jim and Joseph Lyu prepare their case, and then work with Bruce Guenther and Bob's successor to present the issues to Sergey Krimchansky, the IM. If results are not

satisfactory, then Bruce and the new Project Scientist will raise the issues with the new Project Manager.

- Bob also said that they should share their concerns with the SOAT, even though the ATMS is a NASA development. We want a single science point of view as much as possible.
- Pete said that Bruce, Brian Lottman and Karen St. Germain are running the Cal/Val meetings and it would be worth to talk to them too.

4) OMPS: John Qu

- John is concerned that there are only a few NASA people participating in the post-launch Cal/Val telecons.
- He has been talking with Joel and others on how to compare the IR ozone product to the UV product.
- There remains some confusion on who will implement the IR ozone algorithm. Pete said that it was given to CrIS.

5) VIIRS: Hassan Ouaidrari

- Hassan, Sam and Frank DeLucia discussed the general Cal/Val NPP V 12 plan.
- They agreed that the plan as it written now is ill-conceived. It has too much detail that is already covered in other documents, it fails to reference the relevant documents such as the PVP and the sensor calibration plans. They agreed to put together a memo explaining their concerns and providing suggestions about what needs to be in the plan. The memo will ultimately be sent by the Project Scientist to NASA and IPO management after reviews by the PSG and ST members. Hassan is working on a draft of this memo.
- The VisNir focal plane will be redesigned to correct for the cross-talk problems. The new design will be based on the results of Friday simulations.
- The redesigned version will not arrive in time for use in EDU testing.
- HAM coating test results were received from 2 vendors. The decision will be made after these results are evaluated. Tom Pagano has some alternate ideas he is discussing with the NGST IM, Lane Darnton.
- Tom Pagano is working on the algorithm assessment report for VIIRS and is receiving inputs from the ST members.
- Bob said that it would be very beneficial if other sensor groups would do the same. We need to make some interim input to NASA HQ

6) CrIS: Sam Gasster,

- There was a joint ATMS/CrIS telecon to discuss ATMS resampling issue. Sam is consolidating the comments and will send them to Pete and Bruce for their review and then send them via the Project Scientist to IPO and NASA. He will copy Allen Larar, SOAT chair.
- NGST has requested a change in the internal blackbody calibrator emissivity spec from 0.995 to 0.98 because they could not meet the current spec. The recommendation for NGST was to provide additional and more detailed documentation. They sent back a 60-page document, and Sam is looking through it now.
- NGST has requested a change the horizon cells size from 14 km to 48 km. He is opposed to this. The IPO did not agree to it for now.

- Louis noted that 4 LWIR detectors now meet spec (was 3) with the reduction in electronic noise. He also noted that EDU 3 testing is about to begin.

7) NPP web sites: Ron Vogel, Bob Woodward

- Ron said that the NPP Science Team web page is completed. He is waiting for the approval to release it. The URL is: <http://nppwww.gsfc.nasa.gov/index4.html>
- Ron also made a comment that there is no link yet to the NPP Project web site because it is still under the construction.
- Hassan made a comment that he is working with Mingjie on the Project web site. It's URL is: <http://landval.gsfc.nasa.gov/tmpnpp/index.html>
- Bob asked everybody to look at these pages and send comments if any to Ron and Mingjie.

8) The next PSG is scheduled for Monday, April 26